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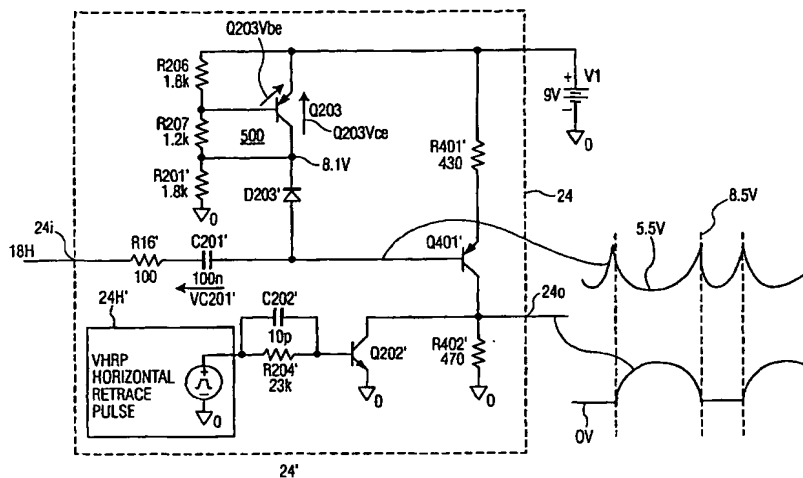
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(54) Title: **WAVEFORM GENERATOR FOR CONTROLLING AN ELECTRON BEAM IN A CATHODE RAY TUBE**



(57) Abstract: A parabola generator for providing dynamic correction includes a capacitor (C201) source of a parabolic input signal (18H) at a frequency related to a horizontal deflection frequency coupled to a first terminal of the capacitor (C201)(Fig. 1C). A diode switch (D203) is coupled to a voltage at a reference level and to a second terminal of the capacitor (C201) for periodically clamping a peak level of a signal developed at the second terminal. A transistor switch (Q401) is responsive to a periodic switch control signal and coupled to the second terminal capacitor (C201) for periodically clamping a signal applied from the second terminal, during retrace, for removing a parasitic parabolic voltage portion to generate a dynamic correction signal. The dynamic correction signal is coupled to a cathode ray tube to vary a field in a beam path of an electron beam of the cathode ray tube for providing dynamic correction.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US03/12178**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : H01J 29/58, 29/70

US CL : 315/382, 382.1, 370, 371, 368, 276D, 18; 307/490, 246; 328/142

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 315/382, 382.1, 370, 371, 368, 276D, 18; 307/490, 246; 328/142

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4,560,910 A (MIDLAND) 24 December 1985, entire document.	1-12
Y	US 5,705,900 A (HWANG) 06 January 1998, entire document.	1-12
Y	US 3,757,162 A (JOHNSON) 04 September 1973, entire document.	1-12
Y, P	US 6,504,326 B2 (HUCKRIEDE) 07 January 2003, entire document.	1-12
Y	US 4,500,816 A (MURPHY) 19 February 1985, entire document.	1-12
A	US 4,184,104 A (SHOUSE, JR.) 15 January 1980, entire document.	1-12

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